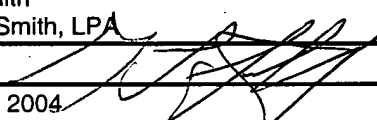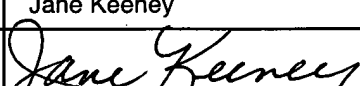PTO/SB/21 (05-03)
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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	10/706,352
Filing Date	March 17. 2003
First Named Inventor	Dumont M. Jones
Art Unit	
Examiner Name	

Total Number of Pages in This Submission	11	
Attorney Docket Number		DMJ 2-002

ENCLOSURES *(Check all that apply)*

☐ Fee Transmittal Form	☐ Drawing(s)	☐ After Allowance communication to Group
☐ Fee Attached	☐ Licensing-related Papers	☐ Appeal Communication to Board of Appeals and Interferences
☐ Amendment/Reply	☐ Petition	☐ Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
☐ After Final	☐ Petition to Convert to a Provisional Application	
☐ Affidavits/declaration(s)	☐ Power of Attorney, Revocation Change of Correspondence Address	☐ Proprietary Information
☐ Extension of Time Request	☐ Terminal Disclaimer	☐ Status Letter
☐ Express Abandonment Request	☐ Request for Refund	☒ Other Enclosure(s) (please Identify below):
☒ Information Disclosure Statement	☐ CD, Number of CD(s) _____	
☐ Certified Copy of Priority Document(s)		
☐ Response to Missing Parts/ Incomplete Application		
☐ Response to Missing Parts under 37 CFR 1.52 or 1.53		

Remarks

Completed form 1449a
40 cited patents
3 cited publications

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Gerald L. Smith Mueller and Smith, LPA
Signature	
Date	February 17, 2004

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Attorney Docket No.: DMJ 2-002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of	)
Dumont M. Jones	)
Serial No. 10/706,352	)
Filed: November 11, 2003	)
For: Document Search Method With	)
Interactively Employed Distance	)
Graphics Display	)

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INFORMATION DISCLOSURE STATEMENT

Sir:

     This Information Disclosure Statement is filed in conformity with 37 C.F.R. §§1.56 and 1.97. Accordingly, copies of the art cited herein are provided:

U.S. Patent No.	Date	Name
6,668,256	12-23-2003	Lynch
6,665,661	12-16-2003	Hogg, et al.
6,654,739	11-25-2003	Crow, et al.
6,654,743	11-25-2003	Apte, et al.
6,633,868	10-14-2003	Min, et al.
6,631,373	10-07-2003	Otani, et al.
6,625,606	09-23-2003	Kondo
6,621,930	09-16-2003	Smadja
6,611,825	08-26-2003	Billheimer, et al.
6,553,382	04-22-2003	Hatori
6,542,889'	04-01-2003	Aggarwal, et al.
6,535,875	03-18-2003	Takahashi, et al.
6,526,440	02-25-2003	Bjarat
6,522,782	02-18-2003	Pass, et al.
6,519,580	02-11-2003	Johnson, et al.
6,505,197	01-07-2003	Sundaresan, et al.

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6,499,026	12-24-2002	Rivette, et al.
6,480,837	11-12-2002	Dutta
6,445,822	09-03-2002	Crill, et al.
6,397,205	05-28-2002	Juola
6,360,277	03-19-2002	Aggarwal, et al.
6,260,051	07-10-2001	Katamyama, et al.
6,169,969	01-02-2001	Cohen
6,131,091	10-10-2000	Light
6,047,277	04-04-2000	Parry, et al.
6,012,053	04-04-2000	Pant, et al.
5,978,797	11-02-1999	Yianilos
5,893,092	04-06-1999	Driscoll
5,787,420	07-28-1998	Turkey, et al.
5,771,378	06-23-1998	Holt, et al.
5,748,953	05-05-1998	Mizutani, et al.
5,706,365	01-06-1998	Rangarajan, et al.
5,687,364	11-11-1997	Saund, et al.
5,659,766	08-19-1997	Saund, et al.
5,642,502	06-24-1997	Driscoll
5,600,835	02-04-1997	Garland, et al.
5,553,226	09-03-1996	Kiuchi, et al.
5,442,778	08-15-1995	Pedersen, et al.
5,297,039	03-22-1994	Kanaegami, et al.
5,278,980	01-11-1994	Pedersen, et al.

GEOFFREY M. DOWNS AND PETER WILLETT, Similarity Searching in Databases of Chemical Structures, Reviews in Computational Chemistry, Vol. 7, VCH Publishers, Inc., New York, 1996.

WRAY BUNTINE, Graphical Models for Discovering Knowledge, Thinkbank, Inc.

CHUN-NAN HSU AND CRAIG A. KNOBLOCK, Using Inductive Learning To Generate Rules for Semantic Query Optimization, University of Southern California

R E M A R K S

U. S. Patent No. 6,668,256 describes a method for selection of discriminate terms (one or more) in a document for use in document categorization;

U. S. Patent No. 6,665,661 describes a search method in which text is converted to context vectors, which in turn are used for data record categorization;

U. S. Patent No. 6,654,739 describes an efficient clustering method, using reduced dimensionality indexes of the documents;

U. S. Patent No. 6,654,743 describes a method for clustering documents, using self-assembly techniques;

U. S. Patent No. 6,633,868 describes a search/categorization method that ranks results based on statistics of word relationships and correlations;

U. S. Patent No. 6,631,373 describes a method for search based on the searching, weighting and indexing of pre-defined document sections;

U. S. Patent No. 6,625,606 describes a method for abstracting document digests and improving search efficiency using those digests in searches;

U. S. Patent No. 6,621,930 describes a method for categorizing documents based on the statistical characteristics of reference groups;

U. S. Patent No. 6,611,825 describes a search method by comparison with vectors that describe word and term frequencies;

U. S. Patent No. 6,553,382 describes a method for automatically merging hierarchical keywords and attribute information, for improved data management;

U. S. Patent No. 6,542,889 describes a method for performing document search by generating conceptual word-chains and evaluating a similarity query using the conceptual index;

U. S. Patent No. 6,535,875 describes a method for cataloging text and structuring the textual content of a document;

U. S. Patent No. 6,526,440 describes a search engine that improves the relevancy of search results by using the interconnectivity of the initially returned set of documents;

U. S. Patent No. 6,522,782 describes a method for indexing and searching of text and images;

U. S. Patent No. 6,519,580 describes a method for categorizing text, using rules derived from pre-defined training data;

U. S. Patent No. 6,505,197 describes a method for identifying patterns and relations of terms in a set of documents;

U. S. Patent No. 6,499,026 describes a method to process, visualize and compare patent documents with other documents (specifically business documents);

U. S. Patent No. 6,480,837 describes a method for ordering searched electronic files by popularity weighting;

U. S. Patent No. 6,445,822 describes a method for comparing one binary image to a reference image;

U. S. Patent No. 6,397,205 describes a method for categorizing documents based on candidate functions and the degree divergence from a reference standard;

U. S. Patent No. 6,360,227 describes a method for generating tree taxonomies to display concepts, using calculated distances between documents;

U. S. Patent No. 6,260,051 descries a method for hashing a text document.

U. S. Patent No. 6,169,969 describes a method (and apparatus) for rapid full-text pattern matches in a large dictionary, with minimal textual preprocessing;

U. S. Patent No. 6,131,091 describes a method for determining the relevance of streaming data using numerical evaluations contained in topic vectors;

U. S. Patent No. 6,047,277 describes a method for categorizing text documents using neural networks;

U. S. Patent No. 6,012,053 describes a method (and apparatus) for rapid full-text pattern matches in a large dictionary, with minimal textual preprocessing;

U. S. Patent No. 5,978,797 describes a database search method, considering word/phrase frequencies and alignment, and resulting in a ranking of records by similarity to an input query;

U. S. Patent No. 5,893,092 describes an iterative method for searching using natural language queries and user feedback on returned results;

U. S. Patent No. 5,787,420 describes a clustering method for document categorization;

U. S. Patent No. 5,771,378 describes a method for document search, calculating ranks by a formula that varies according to the square of the frequency in each of the text documents of each of the search terms;

U. S. Patent No. 5,748,953 describes a hashing method for documents to speed database searching of documents;

U. S. Patent No. 5,706,365 describes a system for indexing and retrieval of stored documents using a decomposition of words in the documents in n-grams, or linear word subunits;

U. S. Patent No. 5,687,364 describes an unsupervised method of learning the relationships between words and unspecified topics in documents, using training documents;

U. S. Patent No. 5,659,766 describes an iterative method of determining the topical content of a document using a computer, based on feature vectors;

U. S. Patent No. 5,642,502 describes an interactive method for searching using natural language queries and user feedback on returned results;

U. S. Patent No. 5,600,835 describes a method for selectively retrieving information in a stored document set using a non-literal, or "fuzzy". search strategy;

U. S. Patent No. 5,553,226 describes a system for displaying concepts, linking super-, sub-, and instances of concepts in a multi-window display;

U. S. Patent No. 5,442,778 describes a method for iteratively and interactively selecting and ref8ining document clusters to browse a document collection;

U. S. Patent No. 5,297,039 describes a method to extract and query analysis networks;

U. S. Patent No. 5,278,980 describes a method for iteratively and interactively selecting and refining document clusters to browse a document collection;
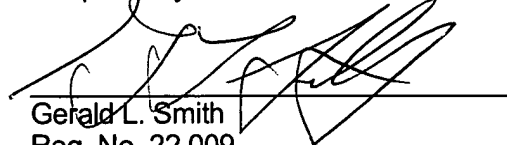
Publication No. 1 discusses the searching of chemical structure databases;

Publication No. 2 summarizes methods for representing knowledge and problems via graph theoretical methods;

Publication No. 3 describes database query optimization using an inductive learning algorithm.

It respectfully is submitted that none of the foregoing art, alone or in combination, shows or proposes the present invention. Accordingly, favorable action on the application respectfully is requested.
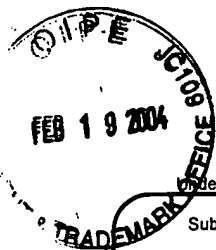
Respectfully submitted,

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CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner of Patents and Trademarks, Alexandria, VA on February 16, 2004.

Jane Keeney
Jane Keeney

Substitute for form 1449/PTO

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known	
Application Number	10/706,352
Filing Date	November 11, 2003
First Named Inventor	Dumont M. Jones
Art Unit	
Examiner Name	
Attorney Docket Number	DMJ 2-002

Sheet | 1 | of | 4

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.¹	Document Number Number-Kind Code² *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 6,668,256	12-23-2003	Lynch	
		US- 6,665,661	12-16-2003	Crow, et al.	
		US- 6,654,743	11-25-2003	Hogg, et al.	
		US- 6,654,739	11-25-2003	Apte, et al.	
		US- 6,633,868	10-14-2003	Min, et al.	
		US- 6,631,373	10-07-2003	Otani, et al.	
		US- 6,625,606	09-23-2003	Kondo	
		US- 6,621,930	09-16-2003	Smadja	
		US- 6,611,825	08-26-2003	Billheimer, et al.	
		US- 6,553,382	04-22-2003	Hatori	
		US- 6,542,889	04-01-2003	Aggarwal, et al.	
		US- 6,535,875	03-18-2003	Takahashi, et al.	
		US- 6,526,440	02-25-2003	Bjarat	
		US- 6,522,782	02-18-2003	Pass, et al .	
		US- 6,519,580	02-11-2003	Johnson, et al.	
		US- 6,505,197	01-07-2003	Sundaresan, et al.	
		US- 6,499,026	12-24-2002	Rivette, et al.	
		US- 6,480,837	11-12-2002	Dutta	
		US- 6,445,822	09-03-2002	Crill, et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.¹	Foreign Patent Document Country Code³ ̄Number⁴ ̄Kind Code⁵ *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T⁶

Examiner Signature		Date Considered	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet |2| of |4|

Complete if Known	
Application Number	10/706,352
Filing Date	November 11, 2003
First Named Inventor	Dumont M. Jones
Art Unit	
Examiner Name	
Attorney Docket Number	DMJ 2-002

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 6,397,205	05-28-2002	Juola	
		US- 6,360,277	03-19-2002	Aggarwal, et al.	
		US- 6,260,051	07-10-2001	Katamyama, et al.	
		US- 6,169,969	01-02-2001	Cohen	
		US- 6,131,091	10-10-2000	Light	
		US- 6,047,277	04-04-2000	Parry, et al.	
		US- 6,012,053	04-04-2000	Pant, et al.	
		US- 5,978,797	11-02-1999	Yianilos	
		US- 5,893,092	04-06-1999	Driscoll	
		US- 5,787,420	07-28-1998	Turkey, et al.	
		US- 5,771,378	06-23-1998	Holt, et al.	
		US- 5,748,953	05-05-1998	Mizutani, et al.	
		US- 5,706,365	01-06-1998	Rangarajan, et al.	
		US- 5,687,364	11-11-1997	Saund, et al.	
		US- 5,659,766	08-19-1997	Saund, et al.	
		US- 5,642,502	06-24-1997	Driscoll	
		US- 5,600,835	02-04-1997	Garland, et al.	
		US- 5,553,226	09-03-1996	Kiuchi, et al.	
		US- 5,442,778	08-15-1995	Pedersen, et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3] -Number[4] -Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T[6]

Examiner Signature		Date Considered	

Substitute for form 1449/PTO **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** *(Use as many sheets as necessary)* Sheet |3 | of |4	**Complete if Known**	
	Application Number	10/706,352
	Filing Date	November 11, 2003
	First Named Inventor	Dumont M. Jones
	Art Unit	
	Examiner Name	
	Attorney Docket Number	DMJ 2-002

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 5,297,039	03-22-1994	Kanaegami, et al.	
		US- 5,278,980	01-11-1994	Pedersen, et al.	
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T[6]

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/706,352
		Filing Date	November 11, 2003
		First Named Inventor	Dumont M. Jones
		Group Art Unit	
		Examiner Name	
Sheet	4 of 4	Attorney Docket Number	DMJ 2-002

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
EXAMINER INITIALS*	CITE NO. [1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the Item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), Publisher, city and/or country where published	T^2
	1	GEOFFREY M. DOWNS AND PETER WILLETT, Similarity Searching in Databases of Chemical Structures, Reviews in Computational Chemistry, Vol 7, VCH Publishers, Inc., New York, 1996.	
	2	WRAY BUNTINE, Graphical Models for Discovering Knowledge, Thinkbank, Inc.	
	3	CHUN-NAN HSU AND CRAIG . KNOBLOCK, Using Inductive Learning To Generate Rules for Semantic Query Optimization, University of Southern California.	

Examiner Signature		Date Considered	